Subject card

Subject name and code	Ship Designing 3, PG_00046550		
Field of study	Ocean Engineering, Ocean Engineering		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2023/2024
Education level	first-cycle studies	Subject group	
Mode of study	Part-time studies	Mode of delivery	at the university
Year of study	4	Language of instruction	Polish
Semester of study	8	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Theory and Ship Design -> Faculty of Mechanical Engineering and Ship Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Tomasz Hinz	
	Teachers	dr inż. Tomasz Hinz	

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	20.0	0.0	20
	E-learning hours included: 0.0						

Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
	Number of study hours	20	4.0	26.0	50

Subject objectives	The aim of subject is a deepening the knowledge of design methods used in the initial design of merchant vessel, in the field of hull modeling, making proof calculations and estimating performance.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W06] has an organized knowledge on engineering methods and design tools allowing the conducting of projects within the construction and operation of ocean technology objects and systems	The student has an organized knowledge of engineering methods and design tools enabling the implementation of projects in the field of construction and operation of facilities and ocean engineering systems	[SW3] Assessment of knowledge contained in written work and projects
	[K6_K03] understands non-technical aspects and effects of operation as an engineer, its influence on the environment and is aware of the responsibilities for the decisions taken	The student is able to analyze the non-technical aspects and effects of activity in the profession of an engineer, its impact on the environment and is aware of the responsibility for decisions making	[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work
	[K6_W05] has an organized knowledge on design, construction and operation of ocean technology objects and systems	The student has structured knowledge in the design, construction and operation of ocean engineering facilities and systems	[SW3] Assessment of knowledge contained in written work and projects

Subject contents	Design task carried out in a computer laboratory with the use of computer software, e.g. NAPA, MaxSurf. Project scope:- hull modeling- interior division modeling,- calculation of damage stability,- - preparation of technical documentation.

Prerequisites and co-requisites	The Course: Projektowanie okrętów I

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	51.0%	75.0%
	Report	100.0%	25.0%

Recommended reading	Basic literature	Michalski J.P.: Podstawy teorii projektowania okrętów
		Buczkowski L.: Podstawy budownictwa okrętowego.Tom 1, 2 i 3.
		Pacześniak J., Staszewski J.: Projektowanie morskich statków chandlowych. Tom 1, 2 i3
		Watson D.G.M.: Practical ship design
		Papanikolaou A.: Methodologies of Preliminary Design
	Supplementary literature	Schneekluth H.: Ship design for efficiency and economy
		Michalski J.P.: Metody przydatne do wspomaganego komputerem projektowania wstępnego statków śródlądowych.
		Volker B.: Practical Ship Hydrodynamics
	eResources addresses	Adresy na platformie eNauczanie: Projektowanie okrętów III, PG_00046550, 2023/24 niestacjonarne - Moodle ID: 37693 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37693
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	